EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER

PUBLICATION DATE

11336600

07-12-99

APPLICATION DATE

22-05-98

APPLICATION NUMBER

10141657

APPLICANT: NISSAN MOTOR COLTD:

INVENTOR: URUSHIBARA TOMONORI;

INT.CL.

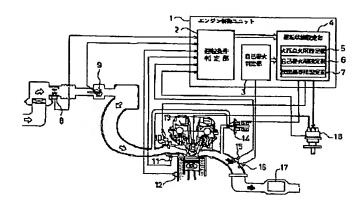
F02D 45/00 F02D 45/00 F02B 1/12

F02B 11/00 F02P 5/15

TITLE

: SPARK IGNITION TYPE INTERNAL

COMBUSTION ENGINE



AVAILABLE COPY

ABSTRACT :

PROBLEM TO BE SOLVED: To provide a spark ignition type combustion engine capable of conducting stable self ignition operation by monitoring an NOx concentration in exhaust gas.

SOLUTION: An operating condition judging section 2 judges, on the basis of signals from various sensors, which one of self ignition or spark ignition is suited for an operating condition, and informs an operating condition setting section 4 of a result of the judgement. A self ignition judging section 3 judges, on the basis of an NOx concentration before exhaust cleaning detected by an NOx sensor, whether a self ignition actually occurs, and informs the operating condition setting section 4 of a result of the judgement. The operating condition setting section 4 has a setting section for spark ignition 5, a setting section for self ignition 6 and a setting section for condition transition 7; and in the setting for condition transition, when the self ignition judging section 3 judges that a combustion condition to which the operating condition is transited would not occur, the original operating condition is restored.

COPYRIGHT: (C)1999,JPO